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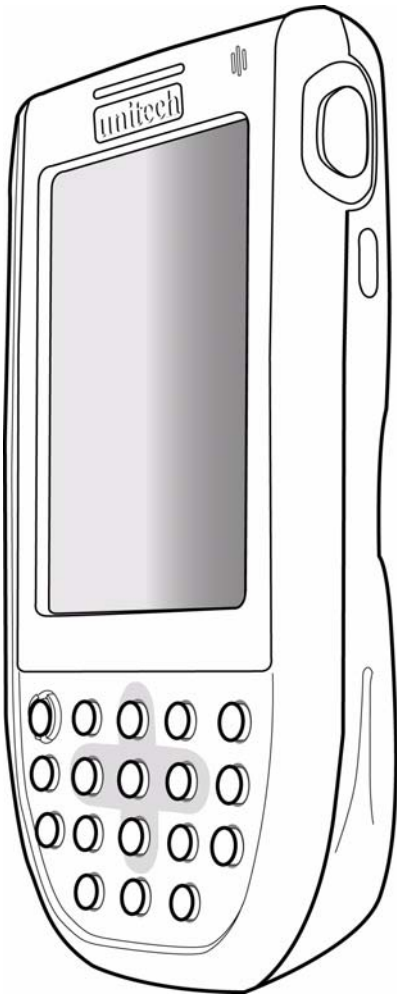
PA600 Rugged Enterprise PDA



User's Manual

400546G Rev. A

About This Manual

This manual explains how to install, operate and maintain the PA600 PDA Barcode Scanner.

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Bluetooth is a registered trademark of Bluetooth SIG. Microsoft, Windows and ActiveSync are either registered trademarks or trademarks of Microsoft Corporation. Other product names mentioned in this manual may be trademarks or registered trademarks of their respective companies and are hereby acknowledged.

Regulatory Compliance Statements

FCC Statement

This is a FCC Part 15 Class B product. In a domestic environment this product may cause radio interference, in which case the user may be required to take adequate measures.

Canadian Compliance Statement

This Class B Digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Cet appareil numerique de la classe B respecte les exigences du Reglement sur le material broilleur du Canada.

The device is certified to the requirements of RSS-139-1 for 2.4 GHz spread spectrum devices.

European Conformity Statement

Declaration of Conformity with Regard to the R&TTE 1999/5/EC and EMC 89/336/EEC directives.

Laser Information

The Unitech PA600 series is certified in the U.S. to conform to the requirements of DHHS/CDRH 21CFR Subchapter J and to the requirements of IEC 825-1. Class II and Class 2 products are not considered to be hazardous. The PA600 series contains internally a Visible Laser Diode (VLD) whose emissions do not exceed the maximum limits as set forth in the above regulations. The scanner is designed so that there is no human access to harmful laser light during normal operation, user maintenance or during prescribed service operations.

The laser safety warning label required by the DHHS/IEC for the PA600 series's optional laser scanner module is located on the memory compartment cover, on the back of the unit.

CAUTION! Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous laser light. Use of optical instruments with the scanner will increase eye hazard. Optical instruments include binoculars, microscopes, and magnifying glasses. This does not include eye glasses worn by the user.

Notices

This unit is equipped with a battery pack and backup battery. It is possible that the Unitech PA600 may not power-on due to battery discharge as a result of storage.

In the above situation, plug the PA600 to the USB charging cable which is with DC in port or put the unit into the Unitech PA600 Cradle (with 5V/2A AC-DC adapter), and recharge the unit for 16 hours in order to fully charge its backup battery.

The backup battery will charge from external power or the main battery (if the main battery still has enough power to turn on). In the event the main battery is fully charged, refrain from using the PA600 for 16 hours in order for the main battery to fully charge the backup battery.

Backing-up data by backup battery only (without the main battery installed in battery compartment) may take as long as 6 hours. Therefore, in order to prevent data protection failure due to backup battery failure, do not leave the PA600 without the rechargeable battery pack installed, or without connection to AC power for an extended period of time.

Battery charge notice

It is important to consider the environment temperature whenever you are charging the Lithium-Ion battery pack. The process is most efficient at normal room temperature or slightly cooler. It is essential that you charge batteries within the stated range of -5°C to 50°C. Charging batteries outside of the specified range could damage the batteries and shorten their charging life cycle.

Storage and safety notice

Although charged Lithium-Ion batteries may be left unused for several months, their capacity may be depleted due to build up of internal resistance. If this happens, they will require recharging prior to use. Lithium-Ion batteries may be stored at temperatures between-20°C to 60°C, however they may be depleted more rapidly at the high end of this range. It is recommended to store batteries within normal room temperature ranges.

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Chapter 1

Getting Started

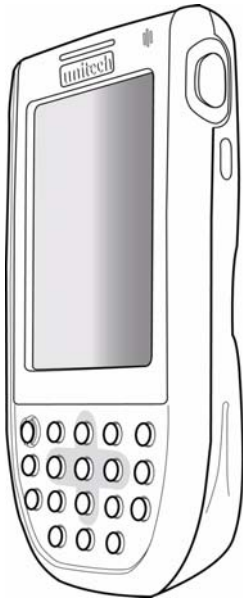
Introducing the PA600

Thank you for purchasing the PA600 PDA Barcode Scanner.

Your PA600 was designed for users who need a compact and durable PDA for data collection and real time transactions.

The PA600 is a rugged, compact and lightweight palm-size computer using the Windows Mobile 5.0 / Windows CE 5.0 operating system, and incorporating an integrated bar code scanning laser device, color LCD with touchscreen, keypad, IrDA interface, and wireless communication capability. It provides users with a standard Windows-based environment for customizing and operating this device.

To reduce TCO, the PA600 is sealed to meet IP54 standards and has undergone multiple drop tests to prevent downtime.



Features

Powerful System

- Microsoft Windows Mobile 5.0 / Windows CE 5.0 operating system
- Intel PXA270 processor with speed of up to 520 MHz

System Memory

- 64 MB SDRAM
- 128 MB Flash ROM

Display

- 3.5-inch QVGA LCD touch-sensitive screen
- 320 x 240 resolution

Barcode Scanner

- Built-in bar code scan engine
- Built-in vibrator for scanning indication
- CCD scan engine (optional)
- Symbol SE950 support
- UNITECH HAMSTER barcode decoder

Communication

- USB Host & Client
- IrDA 1.2 (SIR)
- VOIP support
- 802.11b/g for power saving
- Bluetooth version 1.2 (supports Bluetooth Printer, Bluetooth Modem, Bluetooth ActiveSync)

Audio

- Voice recording and playback
- MIC
- Speaker
- Headset Connector
- Receiver

Wireless Connectivity

- 802.11b/g with diversity antenna
- Bluetooth wireless technology
- Serial infrared port

Expansion Slot

SDIO slot

Battery Life

- Normal usage: 6 hours
- Charging time: 3.5 hours
- Embedded backup battery cell

User-Friendly Interface

- Quick launch hot keys for enabling backlight, calibration, software keyboard, and other device management tasks
- Trigger keys for barcode scanning

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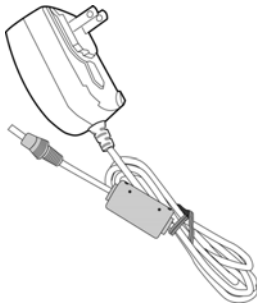
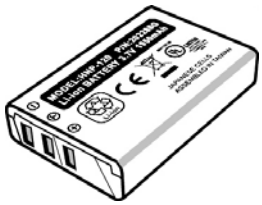
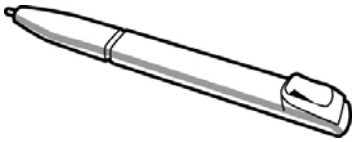
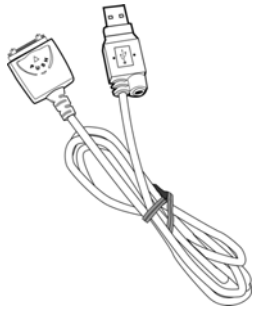
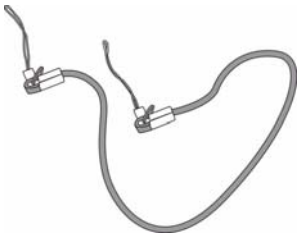
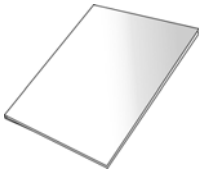
Package Contents

After opening the box, ensure the following accessories for the PA600 are present:

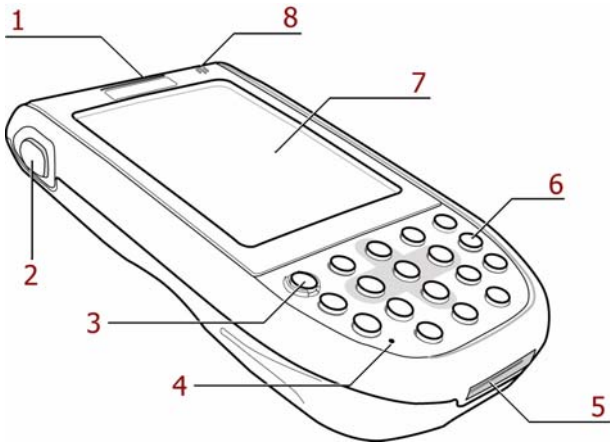
<table>
<tr><td> </td><td>  </td></tr>
<tr><td>PA600 Terminal</td><td>AC Adapter</td></tr>
<tr><td>  </td><td>  </td></tr>
<tr><td>Battery Pack</td><td>Stylus</td></tr>
<tr><td>  </td><td>  </td><td> </td><td>  </td></tr>
<tr><td>USB Charging Cables</td><td>Elastic Stylus String</td><td>CD-ROM</td><td>Quick Reference Guide</td></tr>
</table>

If anything is missing or appear damaged in any way, contact your dealer.

A Tour of the PA600

The following sections describe the main components and features of the PA600.

Front Left View



No.	Component	Description
1.	Status indicator	Indicates the battery charging and barcode scanning status. **Green** - Battery is fully charged, the device is running on battery power, or barcode scanning process is completed without error. **Red** - Battery is charging, barcode scanner is activated and processing.
2.	Left scanner trigger button	Press to activate the barcode laser scanner.
3.	Power button	If the device is off, press this button to turn it on. Alternatively, when the unit is on, this key must be pressed and held down for about two seconds in order to turn the device off.
4.	Microphone	Enables you to record voice audio.
5.	Universal connector	Connects your device to a USB charging cable, which in turn connects to the computer's USB port and through the AC adapter to an electrical outlet. This allows you to recharge your device and perform an ActiveSync operation. You can also use it to connect peripheral hardware, such as a docking station, to your device.
6.	Keypad	Keypad interface for controlling the PA600. See *Keypads and Function Buttons* on page 14 for more information.
7.	LCD touch screen	Displays the applications and data stored on your device. It is touch-sensitive and responds to the stylus or finger.
8.	Speaker	Enables you to hear audio from the PA600.

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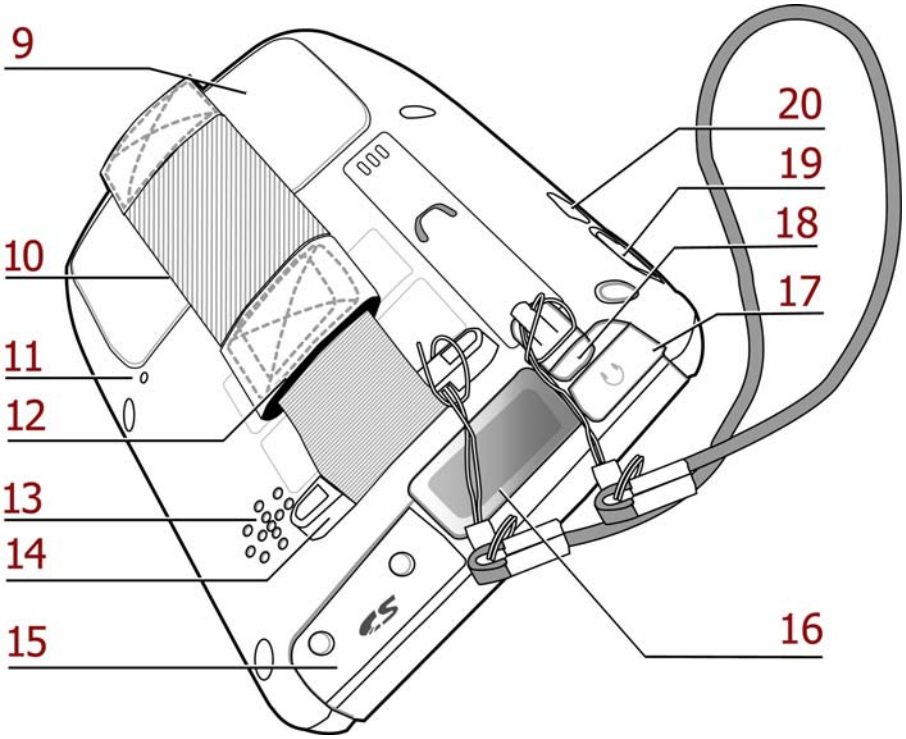
Back View



No.	Component	Description
9.	Battery compartment	Houses the removable and rechargeable 3.7V, 1950 mAH battery pack.
10.	Battery compartment release latch	Opens the battery compartment.
11.	Reset button	Press the end of the stylus into the button to reset your device.
12.	Handstrap	Enables you to securely hold the PA600 while using it.
13.	Speaker	Enables you to hear audio from the PA600.
14.	Strap holder	Attachment location for holding hand strap, carrying strap, and stylus.
15.	Memory card slot	Accommodates Secure Digital memory cards.
16.	Barcode scanner window	Used to scan barcodes.
17.	Earphone jack	Connects to audio line-out devices (earphones or headphones) for use in noisy environments.
18.	Stylus	Enables you to interact with the operating system. To use the stylus, remove it from its holder and hold it the same way you hold a pen or pencil.
19.	Right scanner trigger button	Press to activate the barcode laser scanner.
20.	Infrared (IR) port	Uses infrared technology to transmit and receive data from other IR-enabled devices.

Getting Started

This section explains how to install and charge the battery, how to check battery status, how to turn on the PA600, and how to calibrate the screen.

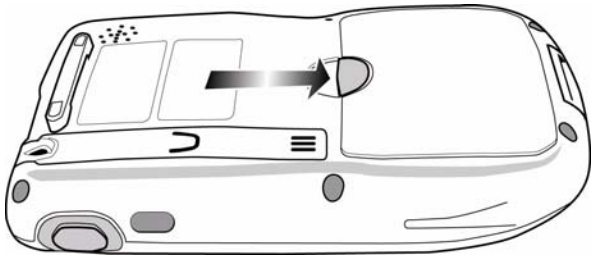
Installing the Battery

WARNING! There is a risk of fire and burns if the battery pack is handled improperly. DO NOT disassemble, crush, puncture, short external contacts, or dispose the battery pack in fire or water. DO NOT attempt to open or service the battery pack. Dispose of used batteries according to local recycling guidelines in your area.

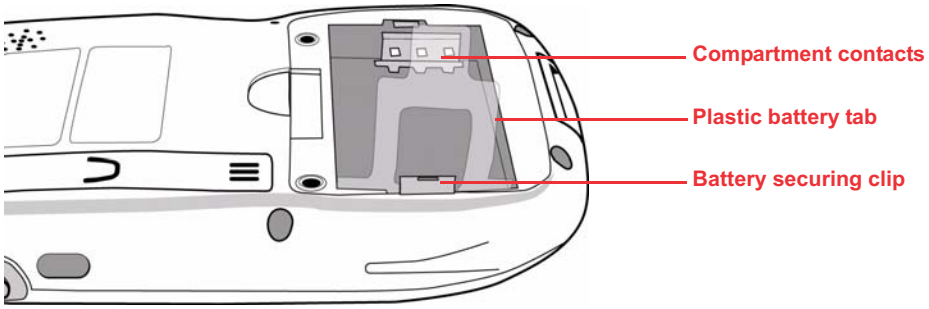
A backup battery cell is embedded into your device to prevent data loss in instances when the removable battery pack is removed or completely discharged. This backup battery cell will only support the system for a maximum of 60 minutes.

NOTE: To enable the internal battery cell to provide backup power supply, charge your device with the main battery pack for at least 12 hours.

1. Open the battery compartment by pushing the latch in the direction of the arrow and lifting up.



The battery compartment is displayed:



NOTE: The plastic battery tab makes it easy to remove the battery.

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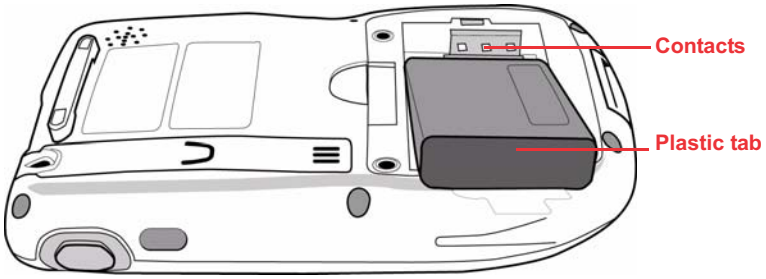
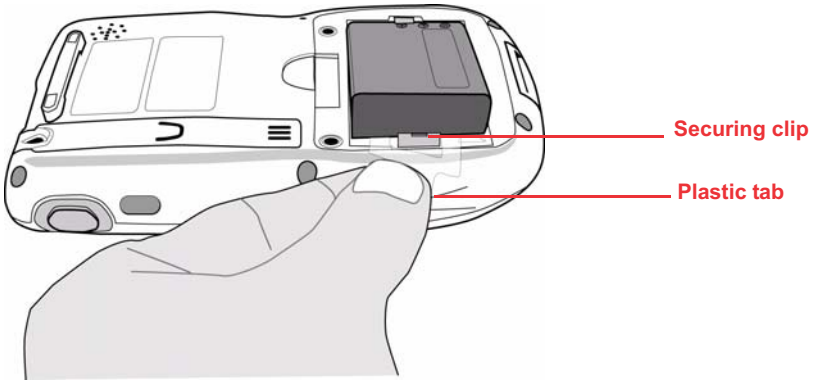
2. Position the battery pack, making sure the battery contacts are aligned with the contacts in the compartment and the battery is placed on top of the plastic tab, as shown in the following illustration.



3. Slide the battery pack into the battery bay while simultaneously pulling the plastic tab and securing clip until the battery clicks into place.



4. Replace the battery compartment cover.

Charging the Battery

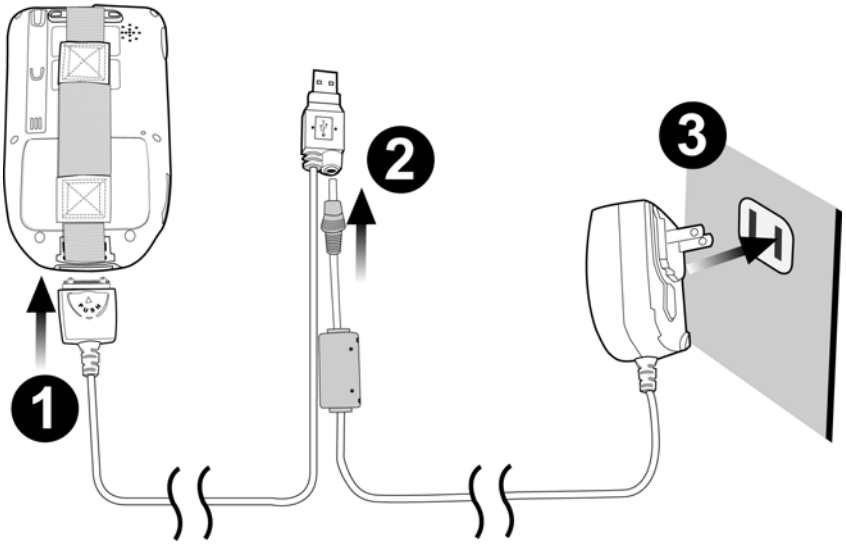
Before using the PA600 for the first time, you need to charge it for about 16 hours. After that, you can charge the PA600 every day to recharge the battery to full capacity. Charge the PA600 using the USB charging cable or the docking station.

CAUTION! Operating the PA600 for the first time without the AC adapter, and without fully charging the backup battery may result in loss of data stored in RAM memory. When the main battery is removed, the backup battery retains RAM data in memory for 2 hours, please charge the battery for the period to avoid the data loss in RAM memory.

NOTE: Data you enter may not be properly stored until the built-in backup battery has been adequately charged.

Charging the Battery using the USB Cable

1. Press and hold the connector button on the USB charging cable and connect it to the PA600 (**1**).
2. Plug the AC adapter cable into the power jack on the USB charging cable (**2**).
3. Connect the AC adapter into an electrical outlet (**3**).



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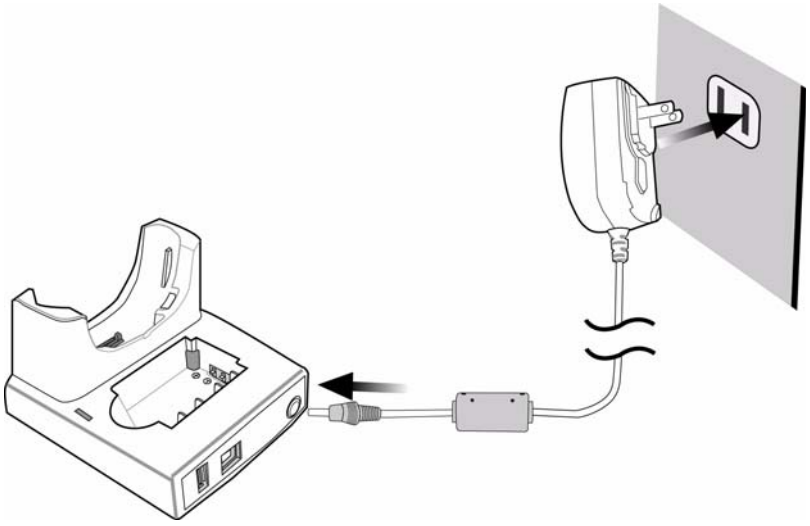
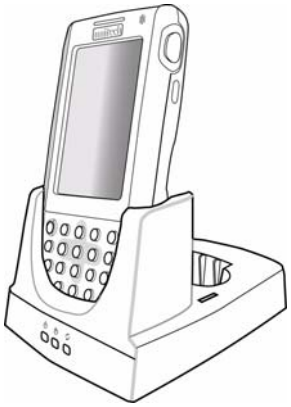
Charging the Battery with the Docking Station

1. Plug the AC adapter cable into the power jack on the docking station, then connect the AC adapter into an electrical outlet.



2. Slide the device into the docking station until it clicks into place.



3. The connection is secure when the bottom edge of the device is aligned with the docking station, and the LED indicator on the device lights up red.

LED Status

	LED	Meaning
PA600	Solid Red	Charging
	Solid Green	Charging complete
Docking Station	Power LED	Power is on
	Charging LED	Charging
	Sync LED	Synchronization is taking place

Checking the Battery Status

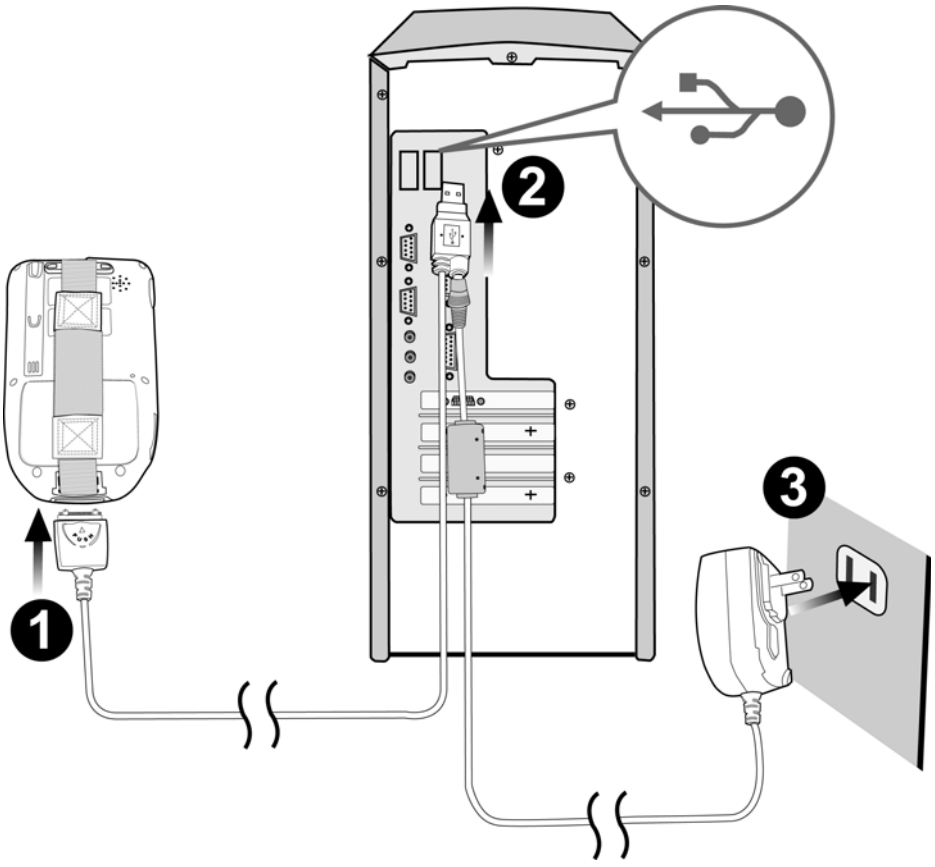
If the battery level becomes low in the course of normal use, a status icon appears on the device screen indicating low or very low battery status. In both cases, perform an ActiveSync operation to back up your data, then recharge your device as soon as possible.

If the battery level reaches low status, the device will enter sleep mode; if the battery level reaches very low status, the device will enter deep sleep mode. In this case, you have about 72 hours to recharge your device after which you risk losing all data on your device's internal memory.

Connecting the PA600 to a PC

Use the USB cable to connect the PA600 to a PC to use with ActiveSync.

1. Press and hold the connector button on the USB charging cable and connect it to the PA600 (**1**).
2. Plug the USB connector into the USB port on the PC and connect the AC adapter into the USB connector (**2**).
3. Connect the AC adapter into an electrical outlet (**3**).



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Turning the PA600 on for the First Time

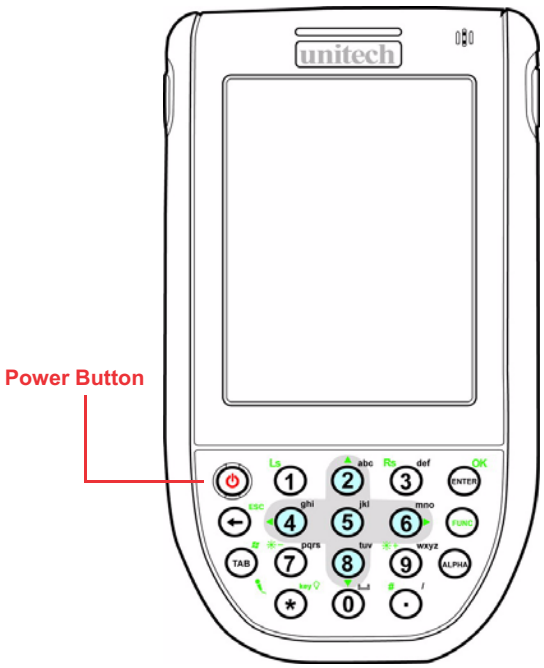
After you have initially charged your device for about 12 hours, the device is ready to be used. You can now start up your device where you'll calibrate the display, learn some basic stylus usage, and set up the system time zone, date and time.

Powering On

1. Turn on your device by pressing the power button on the front panel.

   NOTE: The PA600 screen ships with a protective plastic film. You may remove this if desired by peeling from one corner. The screen will be more susceptible to scratching without the film, but will be more readable.

2. The Unitech PA600 welcome screen appears for a moment followed by the Windows CE screen.

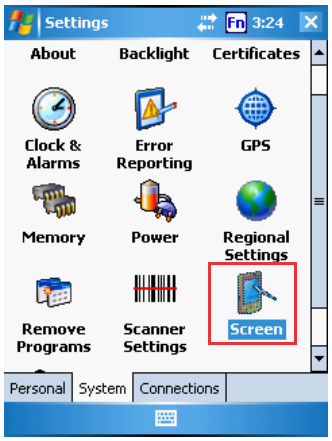


Calibrating the PA600 Screen

The calibrate screen automatically appears when the unit is powered-on for the first time or after the system is reset.

To calibrate the screen at any time, follow these instructions.

1. Tap **Start** → **Settings**, and then click the **System** tab.
2. Tap the Screen icon.



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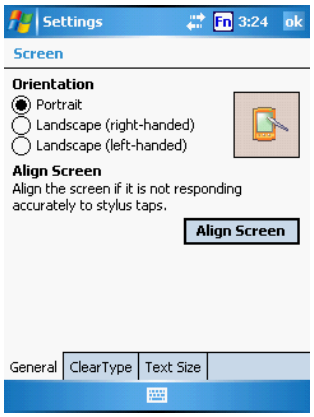
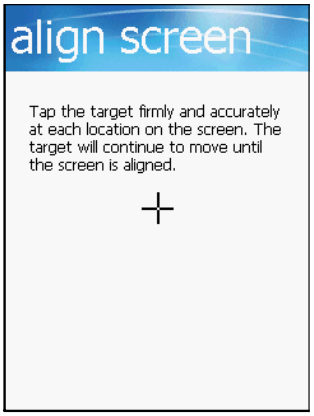
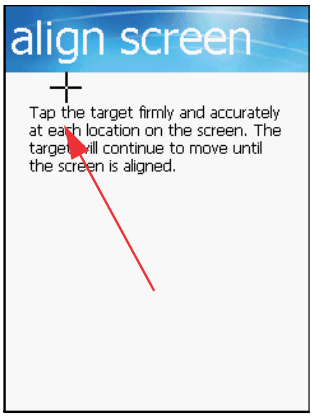
The Screen Settings window appears.
This window enables you to customize the screen settings.



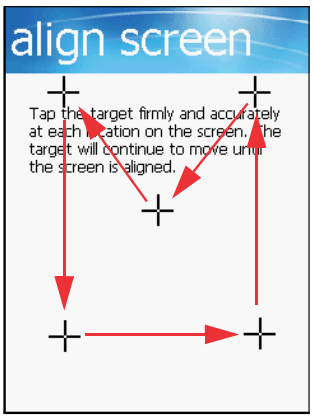
3. Tap **Align Screen** to calibrate the screen.
   The align screen window appears.
4. Tap the cross hair firmly and accurately.


align screen
Tap the target firmly and accurately at each location on the screen. The target will continue to move until the screen is aligned.

The cross hair moves to the next location.


align screen
Tap the target firmly and accurately at each location on the screen. The target will continue to move until the screen is aligned.

5. Continue tapping the cross hairs until the screen has been calibrated.


align screen
Tap the target firmly and accurately at each location on the screen. The target will continue to move until the screen is aligned.

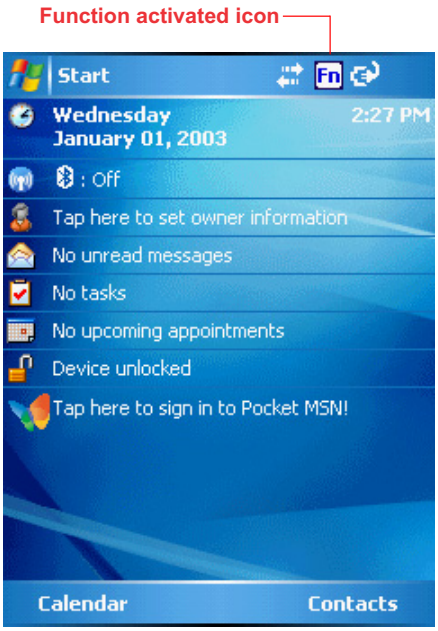
Chapter 2

Using the Hardware

Keypads and Function Buttons

The keypad enables you to both enter information and interact with the PDA operating system and also operate secondary functions using the function button. When the green function button is pressed, the green icon functions on the keypad become available.

When the Function button FUNC is pressed, an icon appears in the operating system:



The following table describes the keypad keys.

Key	Main Function	Secondary Function
	Turns the PA600 on and off	—
	Number 1	Left soft key - activates function above in LCD screen
	Alphanumeric 2, a, b, c	Up navigation key
	Alphanumeric 3, d, e, f	Right soft key - activates function above in LCD screen

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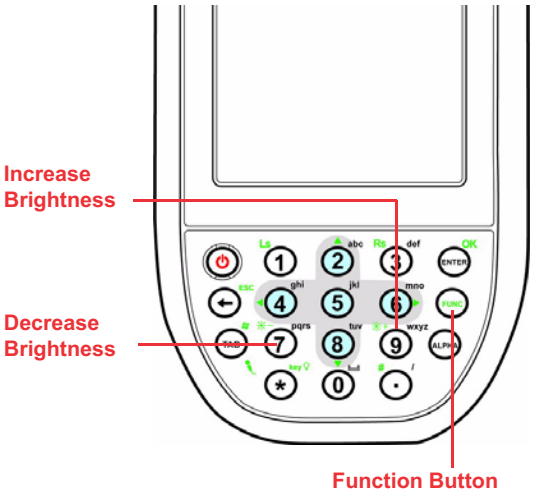
Key	Main Function	Secondary Function
	Enter key	OK
	Back space	Escape key
	Alphanumeric 4, g, h, i	Left navigation key
	Alphanumeric 5, j, k, l	—
	Alphanumeric 6, m, n, o	Right navigation key
	—	Enables/disables secondary function keys
	Tab	Windows key - opens Start menu
	Alphanumeric 7, p, q, r, s	Decreases screen brightness
	Alphanumeric 8, t, u, v	Down navigation key
	Alphanumeric 9, w, x, y, z	Increases screen brightness
	Alpha	—
	Asterisk	Illuminates keypad
	Number 0, space	—
	Period	Pound

Adjusting the Screen Brightness

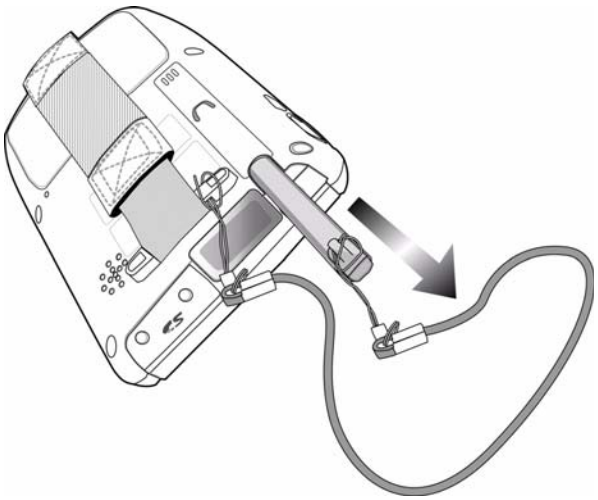
Adjust the screen brightness by pressing the Function button to enable the soft keys and pressing the 7 (decrease brightness) or 9 (increase brightness) buttons.



Using the Stylus

CAUTION! Never use anything other than the PA600 stylus on the screen. Using another object as a stylus could cause permanent damage.

1. Remove the stylus from its holder.



2. Hold the stylus as you would a pencil.
3. To make a choice from a menu, lightly tap the tip of the stylus on that choice.
4. To write data into a field on a form, use the stylus to print the letters or numbers. Use very light pressure.

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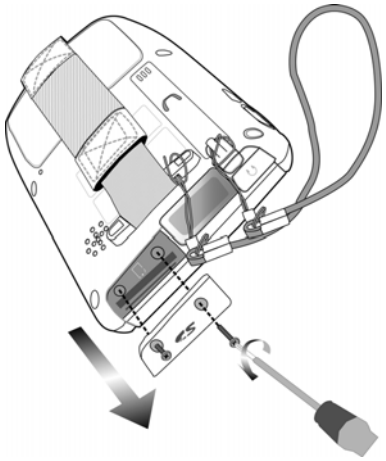
Using the SD/MMC memory card

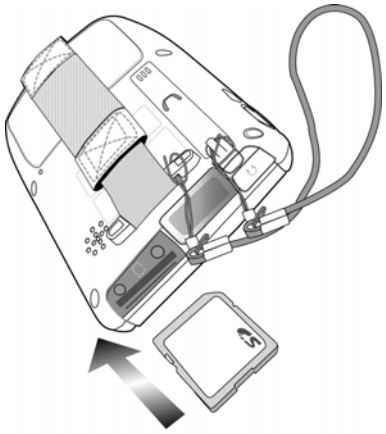
Your device has an expansion slot compatible with a range of SD and MMC storage cards, which are primarily used to back up or transfer files and data. The slot also supports SDIO cards for added connectivity options.

Inserting a Storage Card

1. Remove the two screws from the SD compartment cover and remove the cover.



2. Insert the SD card with the notched corner as shown by the icon on the case.



3. Push the card into the slot until you hear an audible system sound; this will signal that the card is already properly seated within the slot.

   The card is secure when it is not protruding from the slot.

Removing a Storage Card

1. Remove the two screws from the SD compartment cover and remove the cover.
2. Press the card in and release.

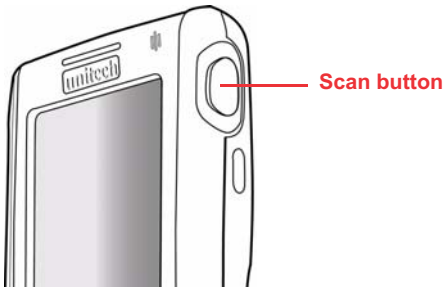
   The card pops out. An audible system sound will signal that the card has been released.
3. Remove the card from the slot.

Using the Laser Scanner

The PA600 has an integrated laser scanner which reads all major bar code labels with excellent performance.

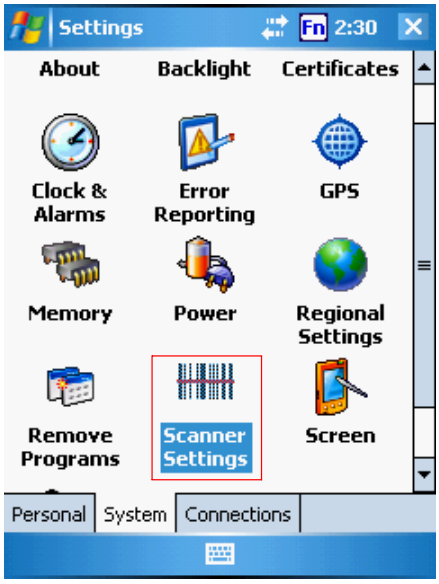
NOTE: Reading software must be enabled in order to operate the scanner. This can be a user-loaded application or a pre-loaded utility such as Scanner Setting.

Activate the laser scanner by pressing either one of the trigger keys located on the left and right side of the unit.

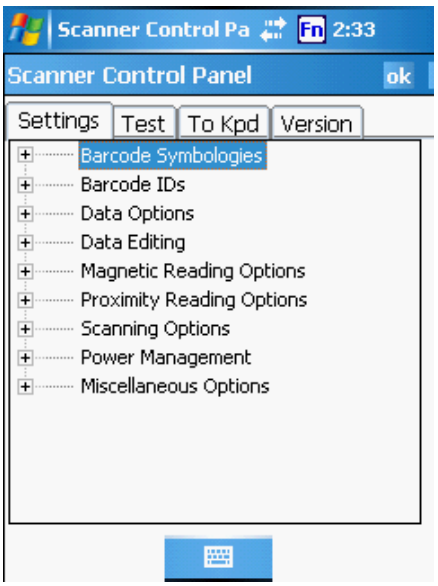


The PA600 has a built-in Scanner Setting utility that allows you to test the device's barcode scan function.

1. To launch Scanner Settings, tap **Start** → **Settings** → **System** → **Scanner Settings**.



2. The Scanner Control Panel opens.



From here you can configure barcode scanner parameters such as enabling or disabling barcode symbologies, setting data transmission options, configuring magnetic and proximity reading options, and setting power management options.

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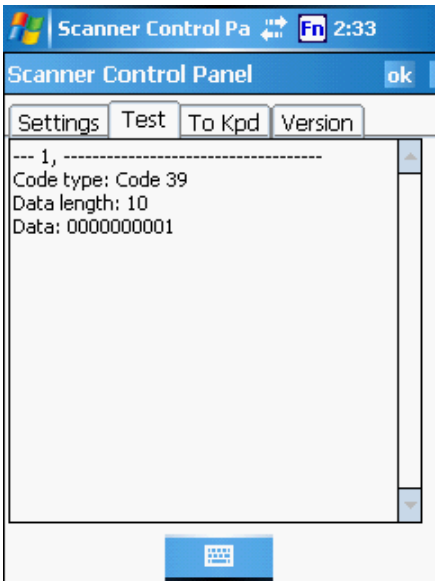
3. To test the barcode scanner, tap the Test tab and press one of the scanner buttons on a barcode. The screen will display the results of the scan.



Chapter 3

Getting Connected

Establishing Device-PC Connection

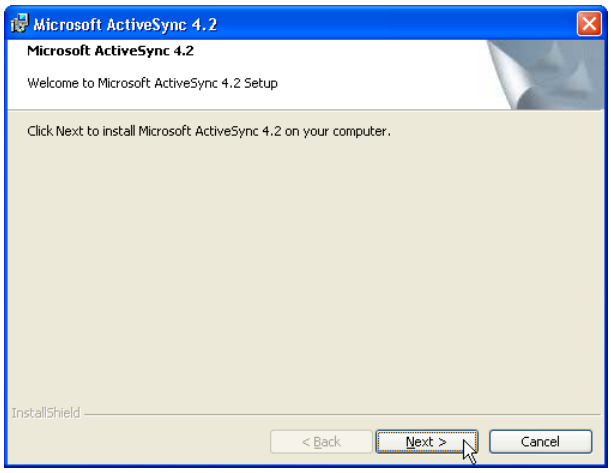
Installing Microsoft ActiveSync

In order to exchange data between your computer and the PA600, Microsoft ActiveSync must be installed on your computer. Use the USB charging cable that comes with your device to connect the device to your computer.

NOTE: If you have a previous version of Microsoft ActiveSync installed on your computer, uninstall it first before installing the latest version of Microsoft ActiveSync.

To install Microsoft ActiveSync on your computer:

1. Close any open programs, including those that run at startup, and disable any virus-scanning software.
2. Download the ActiveSync software from the Microsoft ActiveSync Download page at:
   http://www.microsoft.com/windowsmobile/ downloads/activesync42.mspx
3. Browse to the location of the downloaded file, and double-click it.
   The installation wizard begins.


Microsoft ActiveSync 4.2
Microsoft ActiveSync 4.2
Welcome to Microsoft ActiveSync 4.2 Setup
Click Next to install Microsoft ActiveSync 4.2 on your computer.
InstallShield
< Back
Next >
Cancel

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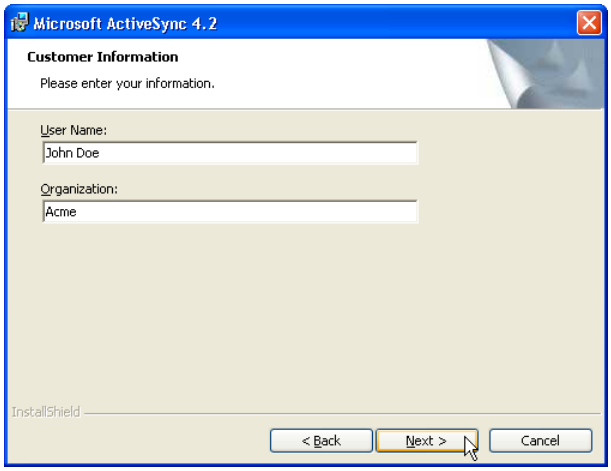
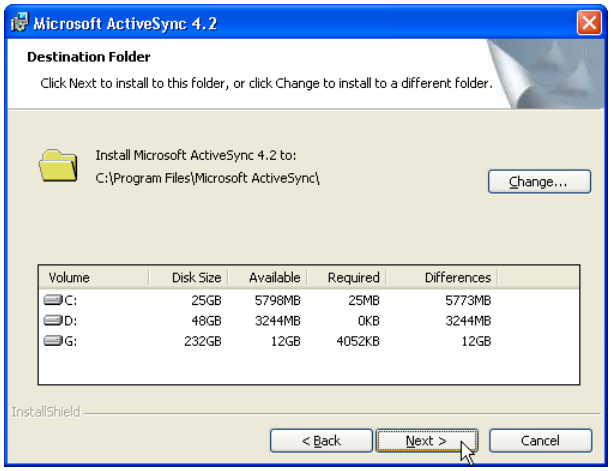
4. Click **Next**.
   You are prompted to read the End User License Agreement (EULA).

Microsoft ActiveSync 4.2
License Agreement
Please read the following license agreement carefully.
MICROSOFT SOFTWARE LICENSE TERMS
MICROSOFT ACTIVESYNC 4.2
These license terms are an agreement between Microsoft Corporation (or based on where you live, one of its affiliates) and you. Please read them. They apply to the software named above, which includes the media on which you received it, if any. The terms also apply to any Microsoft
I accept the terms in the license agreement
I do not accept the terms in the license agreement
Print
InstallShield
< Back
Next >
Cancel

5. Accept the license agreement terms and click **Next**.
   You are prompted for user information.

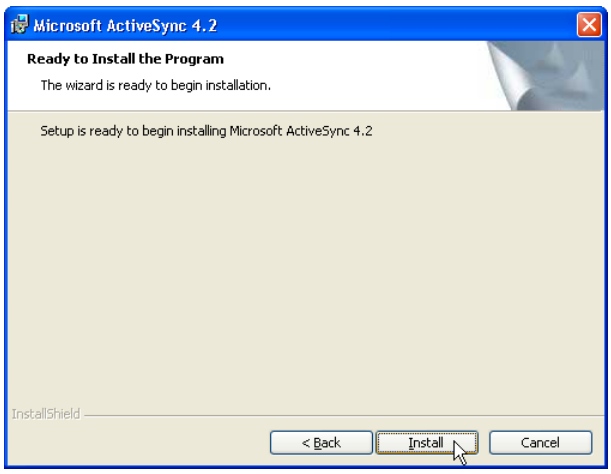


6. Type the user name and organization and click **Next**.
   You are prompted for the destination folder.



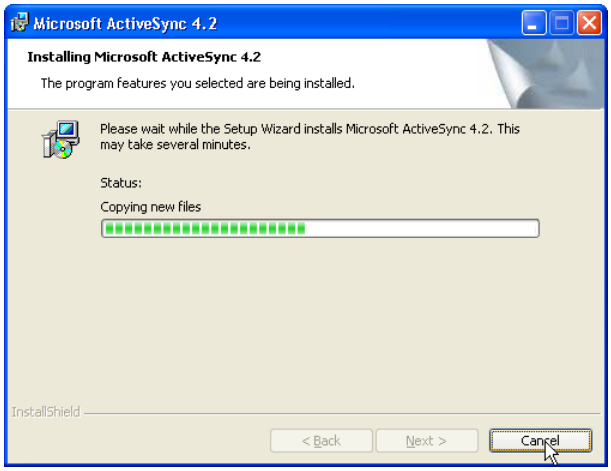
7. Select a drive to install the program to and click **Next**.

   The installation wizard has gathered the information it needs to install Active-Sync and prompts you to begin installation.

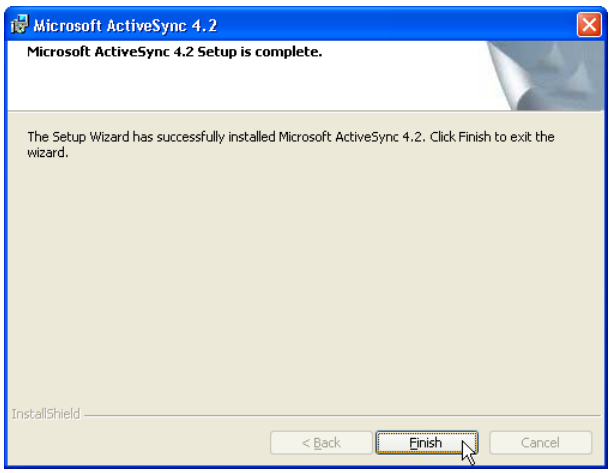


8. Click **Install**.

   The program begins installation


Microsoft ActiveSync 4.2
Installing Microsoft ActiveSync 4.2
The program features you selected are being installed.
Please wait while the Setup Wizard installs Microsoft ActiveSync 4.2. This may take several minutes.
Status:
Copying new files
InstallShield
< Back
Next >
Cancel

After the program has finished installing you see the following screen.


Microsoft ActiveSync 4.2
Microsoft ActiveSync 4.2 Setup is complete.
The Setup Wizard has successfully installed Microsoft ActiveSync 4.2. Click Finish to exit the wizard.
InstallShield
< Back
Finish
Cancel

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9. Click **Finish**.

   You may be prompted to restart your computer.

After you have installed ActiveSync and restarted your computer, the ActiveSync icon appears in your computer's system tray and the ActiveSync Connection Wizard starts. For detailed information on how to use ActiveSync on your computer, start ActiveSync then click **Help** → **Microsoft ActiveSync Help**.

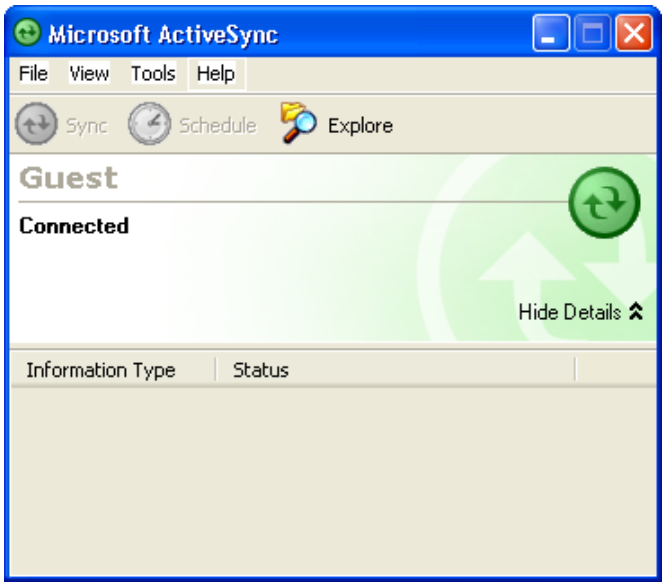
Connecting the PA600 to Your Computer

1. After ActiveSync has been installed, connect the USB charging cable to the universal connector on the bottom of your PA600. If necessary, connect an adapter. Refer to *Connecting the PA600 to a PC* on page 10.
2. Plug the other end of the USB charging cable into a USB port on your computer.
3. Turn the PA600 on.
4. ActiveSync starts automatically and configures the USB port to work with the PA600. The New Partnership setup wizard will automatically start.

NOTE: If ActiveSync doesn't start automatically, click **Start** → **Programs** → **Microsoft ActiveSync**.

If a message appears indicating that it is unable to detect a connection, click the **Cancel** button and manually configure the communication settings.

5. Follow the onscreen instructions.
6. When the configuration process is complete, the ActiveSync window appears.



7. Synchronization will be initialized and will take place if you've chosen to synchronize periodically or upon connection.

NOTE: Your computer can create a partnership with multiple PA600s. Also, a PA600 can create a partnership with up to two computers.

Synchronizing with Your Computer

Synchronization takes place according to the options you choose while setting up ActiveSync on your computer. If you accept the default (On Connect) synchronization option in the Microsoft ActiveSync Setup Wizard, you'll be able to simply connect your PA600 to your desktop computer and synchronization will take place.

If you have not enabled the On Connect feature in ActiveSync, you can start ActiveSync in either of the following ways:

- On your computer, double-click **My Computer** → **Mobile Devices** folder.
- Connect the USB cable between the computer and the PA600.
- Execute "Rellpog.exe" from the PA600 Windows directory

Connection Options

You can set remote synchronization with your computer using the following connection options:

- USB connection
- Infrared connection
- Bluetooth connection
- WiFi connection

USB Connection

To synchronize with your computer using a USB connection:

1. Open ActiveSync.
2. Connect your device to your computer using the USB charging cable.
3. Initiate connection by tapping **Start** → **Programs** → **ActiveSync**.
4. Tap **Menu** → **Connections**.
5. Select **Synchronize all PCs** using this connection check box.
6. Select a baud rate or cable type connection.
7. Tap **OK**.

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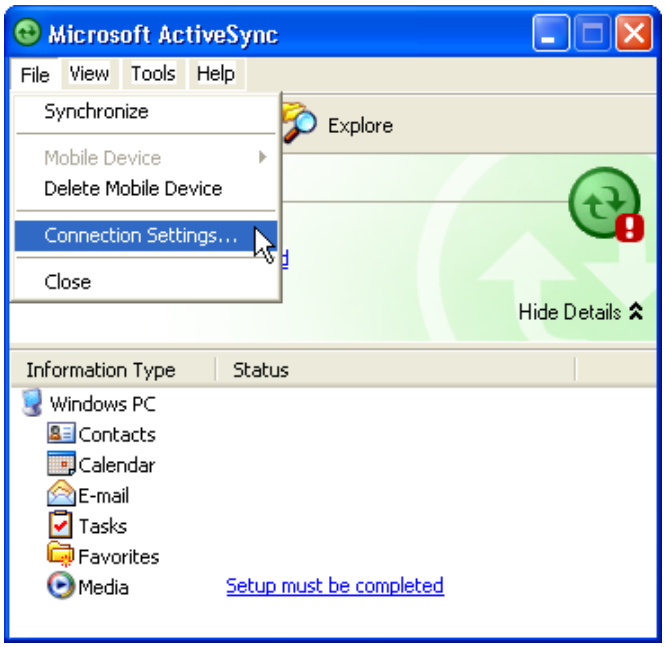
Infrared Connection

The infrared port allows you to synchronize information with an infrared enabled computer. Align the infrared port of your device with the infrared port on the computer.

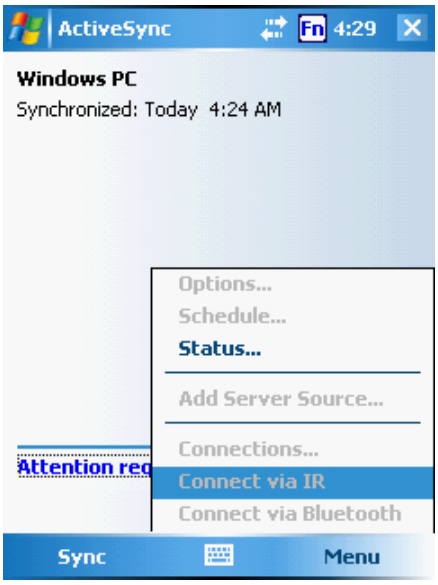
This method is ideal for quickly switching between multiple devices since there are no cables or adapters to change.

1. Perform the steps below on your computer:
   a. Configure an infrared port on your computer following the manufacturer's instructions.
   b. Once your computer's IR port is ready, open ActiveSync.
   c. Click **File** → **Connection Settings**.



   d. Check **Allow connections to one of the following** and select **Infrared Port (IR)** from the drop-down list.
   e. Click **OK**.

2. Perform the steps below on your device:
   a. Align the IR port of your PA600 with that on your computer so that they are unobstructed and within close range.
   b. Initiate connection by tapping **Start** → **ActiveSync** → **Menu** → **Connect via IR**.
   c. Tap **Sync**.

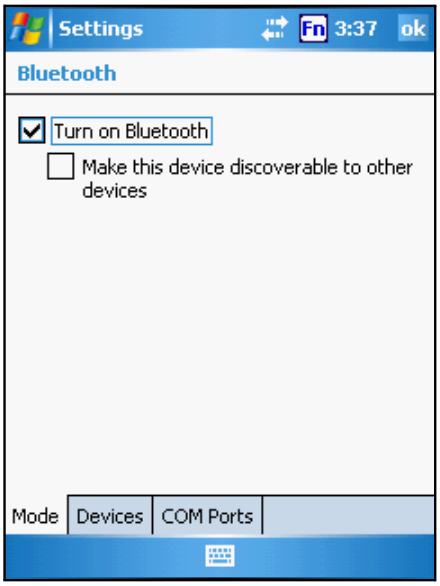


Bluetooth Connection

Your device is equipped with Bluetooth wireless technology that you can use to synchronize information with a computer equipped with a Bluetooth adapter or access point. Bluetooth wireless technology allows you to communicate with the computer whenever it is within range.

Follow these instructions to set up a Bluetooth connection.

1. Tap **Start** → **Settings** → **Connections** → **Bluetooth** → **Mode** and check **Turn on Bluetooth**.



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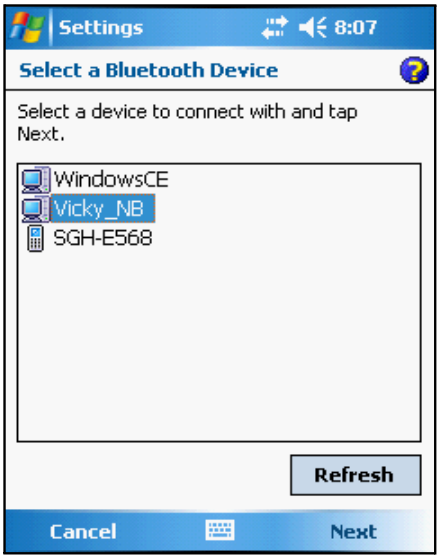
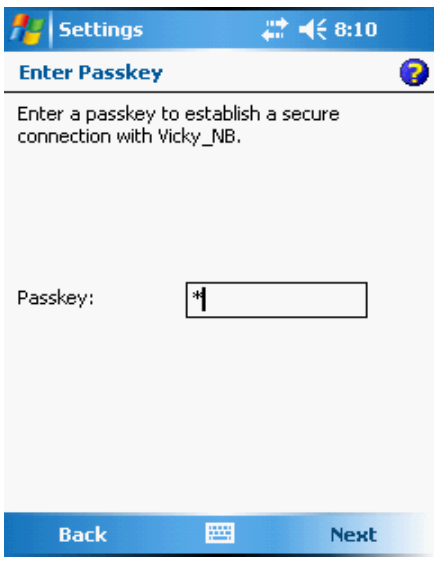
2. Tap **Devices** → **New Partnership…**

3. Select a device from the list and tap **Next**.

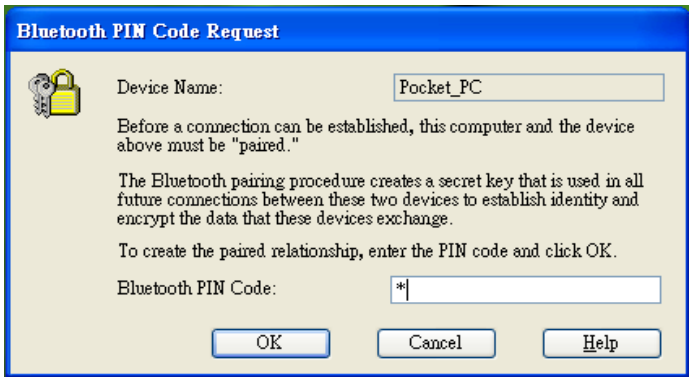


You are prompted for a passkey.

4. Enter the Passkey.



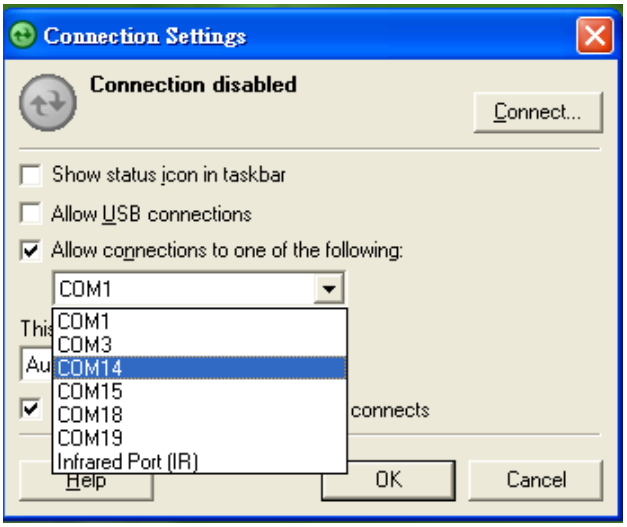
On the PC screen, you are prompted to enter the Bluetooth PIN Code Request.


Bluetooth PIN Code Request
Device Name:
Pocket_PC
Before a connection can be established, this computer and the device above must be "paired."
The Bluetooth pairing procedure creates a secret key that is used in all future connections between these two devices to establish identity and encrypt the data that these devices exchange.
To create the paired relationship, enter the PIN code and click OK.
Bluetooth PIN Code:
OK
Cancel
Help

5. Enter the same Bluetooth PIN Code you entered in step 4.

6. On the PA600 tap **Partnership Settings** → **Check Serial Port** → **Finish**.

7. On your PC, click **ActiveSync** → **Connection Setting** → **Select COM Port** (COM 14) → **OK.**
8. On the PA600 tap **Start** → **Programs** → **ActiveSync** → **Menu** → **Connect via Bluetooth**.



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WiFi Connection

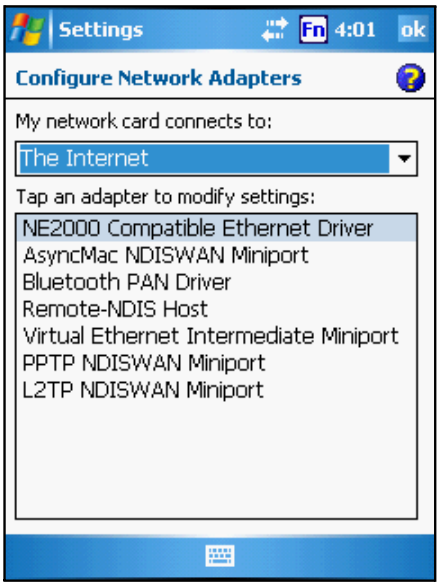
Through the use of the SDIO card, you can send and receive signals to a WiFi network then synchronize files.

NOTE: WiFi access requires a separate purchase of a service contract with a wireless service provider. Contact a wireless service provider for more information.

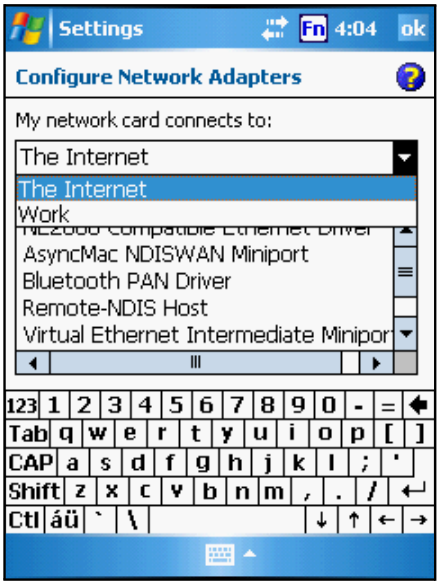
A wireless network can be added either when the network is detected or by manually entering settings information. Before performing these steps, determine if authentication information is needed.

1. Tap **Start** → **Settings**, then tap the **Connections** tab.
2. Tap **Network Cards**.

   The Configure Network Adapters screen appears.



3. Select whether the network card connects to the Internet or your work LAN from the drop-down list.
4. If there are networks already detected, tap and hold network name, then select **Connect**.
5. Under the Network to access, select from the following network connection options:
   - All available
   - Only access points
   - Only computer-to-computer
6. When finished, tap **OK**.



For more information on how to configure the wireless network settings, tap **Start** → **Help**.

Synchronizing Information

All files created on the device are stored in "My Document/PA600 My Document" folder (if the designated device name is PA600). You can view files by double-clicking the **PA600 My Documents** icon on your computer.

If you have enabled file synchronization, your PA600 files are automatically synchronized in the My Documents folder on your computer, unless a different name was chosen for PA600.

Synchronization Options

Synchronization options can be modified, including when you synchronize and what gets synchronized. In the Mobile Device window, click **Tools** → **Sync Options**.

For each type of information, the synchronization process can be hastened by limiting the amount of data to be synchronized. To do this, select a service and click the **Settings** button. After enabling a service, you must close and reopen ActiveSync.

Using ActiveSync to Exchange Files

You can use ActiveSync to exchange information from your device to your computer and vice versa. Changes you make to the information on one location will not affect the information on the other one. If you want to automatically update information on both your device and computer, synchronize the information instead.

You can copy two types of information to your device: files and Pocket Access Windows CE Store information.

The procedure below only applies to copying files. Refer to the ActiveSync Help on your computer for instructions on how to copy Pocket Access Windows CE Store information.

NOTE: Files created on your computer may need to be converted by ActiveSync so that they can be viewed and edited on your device, and vice versa.

To copy files:

1. Connect your device to your computer.
2. In ActiveSync on your computer, click **Explore**.

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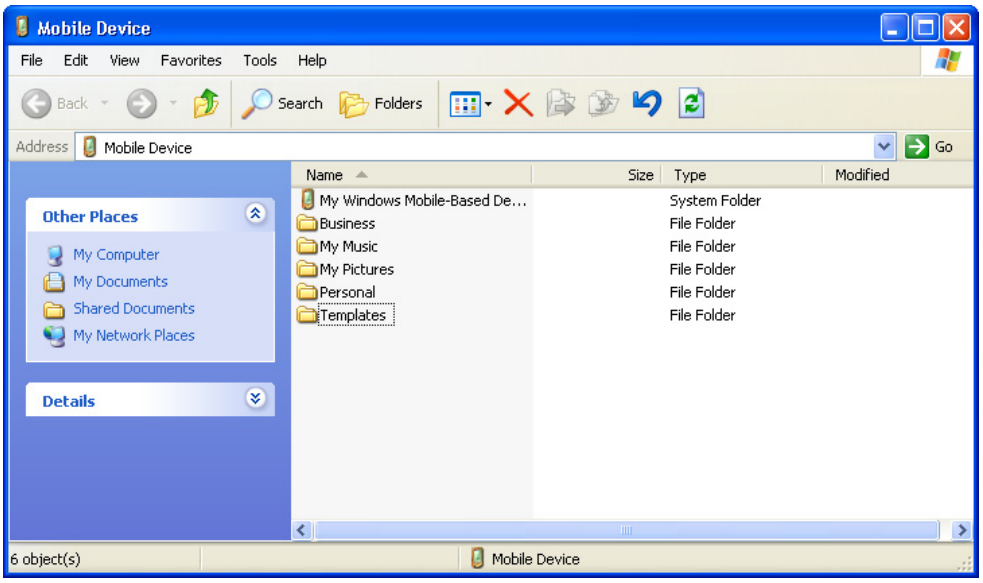
Windows Explorer opens the Mobile Device window for your device.



3. Locate the file that you want to copy on your device or computer.
4. Do either one of the following:
   – To copy the file to your device, right-click the file and click **Copy**. Place the cursor in the desired folder for your device, right-click, then click **Paste**.
   – To copy the file to your computer, right-click the file and click **Copy**. Place the cursor in the desired folder for your computer, right click, then click **Paste**.

Chapter 4

Barcode Scanner Programs

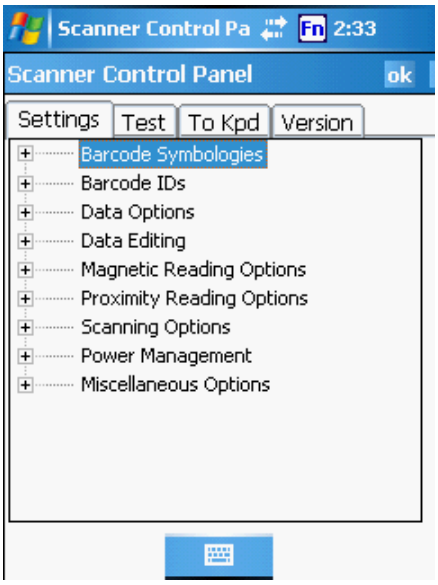
Scan2Key

The Scan2Key application routes input from a scanner port to a keypad buffer, making all input from the scanner emulate input from the keypad. Using Scan2Key, scanned data will be directed from the scanner port to any aware (active/focused) text editor such as MS Mobile Word.

Scanner Setting

When it is necessary for the user to change the default barcode symbology for a different application, the Scanner Control Panel provides the ability to change the default symbology, place delimiter characters behind scanned data, and save the settings.

Tap **Start** → **Settings** → **System** → **Scanner Settings** to display the Scanner Control Panel.



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Barcode Symbologies

Barcode Symbology	Enable/ Disable	Check Char/Digit verification	Transmit Check Char/digit	Max/ Min Length	Transmit Leading Digit	Other
Lookland EAN	YES					
Codabar	YES	YES	YES			Transmit Start/ Stop bits, CLSI format, *data length
Code 11	YES		YES			* check digits, *data length
Code 128	YES					*data length
Code 32	YES				YES	Transmit Tailing digit
Code 39	YES	YES				For ASCII, Transmit Start/Stop bits, Function Code, Double label decoding,*data length, *double labels separator
Code 93	YES		Yes			*data length
Deta Code	YES	YES	YES			
EAN 128	YES		Yes			Transmit Code ID, * Field separator
EAN 13	YES	YES			YES	
EAN 8	YES	YES			YES	* Not suppress first or last digit, *data length
Interleaved 2 of 5	YES	YES	YES			Fixed Length, * Not suppress first or last digit, *data length
Label Code IV&V	YES		YES			
MSI/Plessey	YES		YES			* Check digit double module 10, * data length
Standard 2 of 5	YES	YES	YES			Fixed Length, *Data Length
Telepen	YES					*Standard Character Set
UPC A	YES		YES		YES	
UPC E	YES		YES		YES	Zero Expension,NSC
UPC/EAN Group						Supplement 2, Supplement 5,Insert Space before supplement, most have supplement, *Add-on code try level

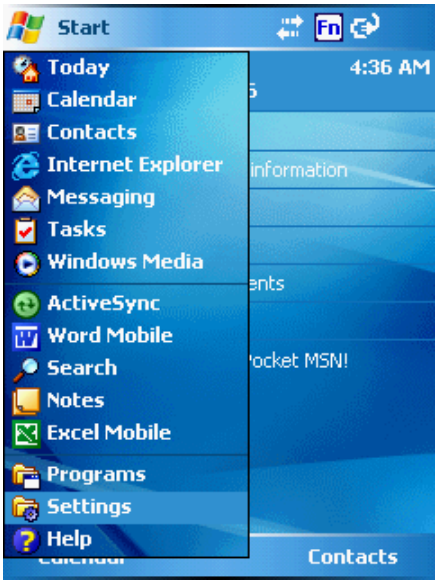
Note: *Value Adjustable Scanner Control Pannel V3.0

Advanced Settings

Adjusting Settings

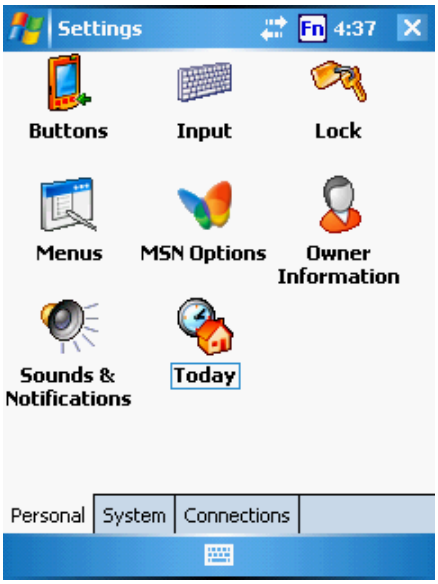
This section describes how to adjust the settings of your device to accommodate your work habits.

To access Settings, tap **Start** → **Settings**.



The Settings screen appears.

You can adjust such user-configurable items as the backlight, auto power off timer, system volume, and processor speed. You can also assign functions to buttons, configure menus, enter owner information, and set up connections.



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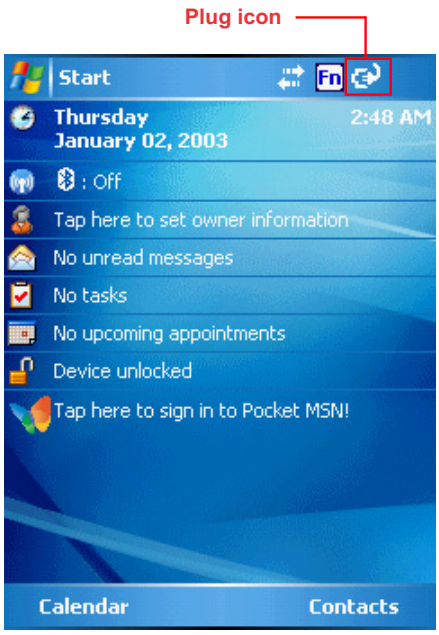
Checking the Main and Backup Battery Status

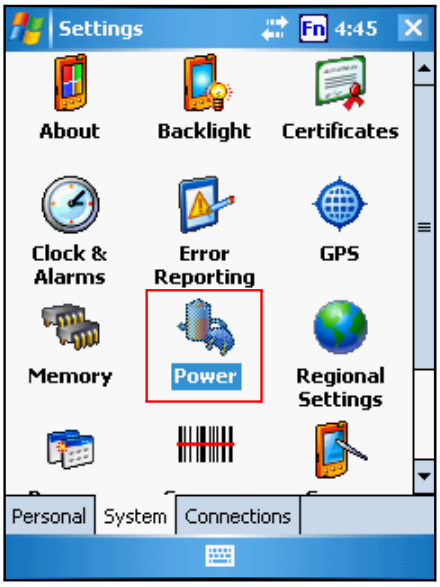
This section describes how to view the power level for both the main and backup battery. To minimize power consumption, you can define settings for the auto-off function and the processor's operation speed.

To check the main and backup battery status:

1. Open Power Properties. Do either of the following:
   - If the Plug or Battery icon appears on your device, double-tap the icon to bring the Power Properties screen.



   - Tap **Start** → **Settings** → **System** → **Power**.

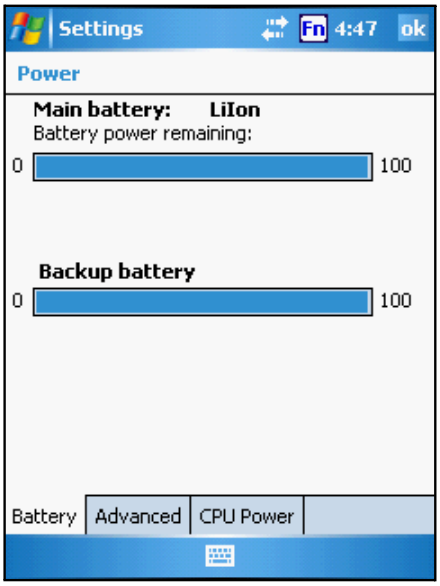


The Power screen appears.

2. The battery menu item displays the status of the main and backup batteries.

   On the screen shown here, both batteries are at almost 100% charge.

NOTE: It is necessary to charge the battery when the battery charge reaches below 10%. If the battery does not accept a charge, contact Unitech Technical Support.



Extending Battery Life

You can extend the PA600 battery life by doing either of the following:

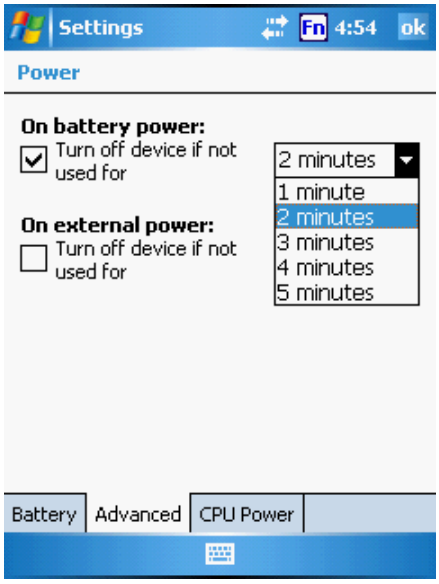
- Change the automatic power settings
- Minimize the use of backlight

Changing the Automatic Power Settings

The PA600 will enter idle mode when there is no task, or all tasks are waiting for input. In default setting, the PA600 automatically turns itself off if it remains idle for 3 minutes and when there is no external charging power connected. Pressing the power button returns the PA600 to the same point at the time of automatic shutdown.

To change the automatic power settings:

1. In the Power screen tap the **Advanced** tab.
2. Tap the automatic shut off time arrow to select from a list of time periods. The available time periods are 1, 2, 3, 4, and 5 minutes.
3. This function can also be activated when the PA600 is plugged into the power adapter or placed in its docking station by tapping the **On external power** check box and then tapping the arrow to select from a list of time periods. The available time periods are 1, 2, 5,10, 15 and 30 minutes.



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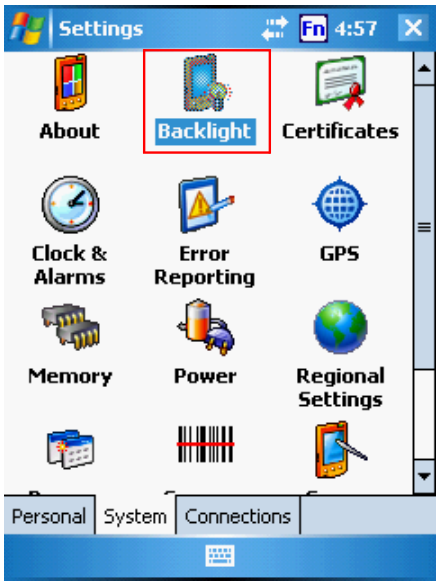
Adjusting Backlight Setting

The power consumption of the LCD backlight is high, turn off the backlight function if it is not necessary.

If a backlight is required, set “automatically turn off the backlight” function.

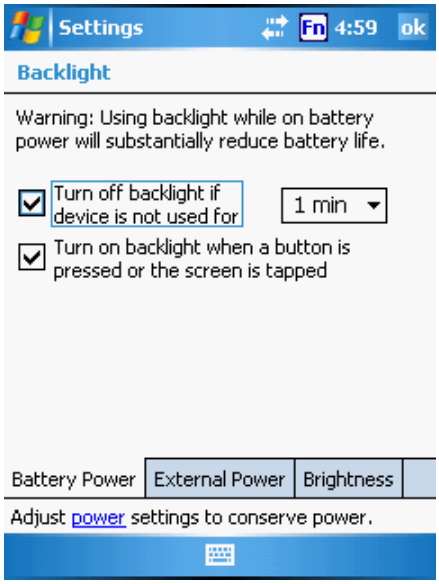
To change backlight settings:

1. Tap **Start** → **Settings** → **System**.
2. Tap **Backlight**.

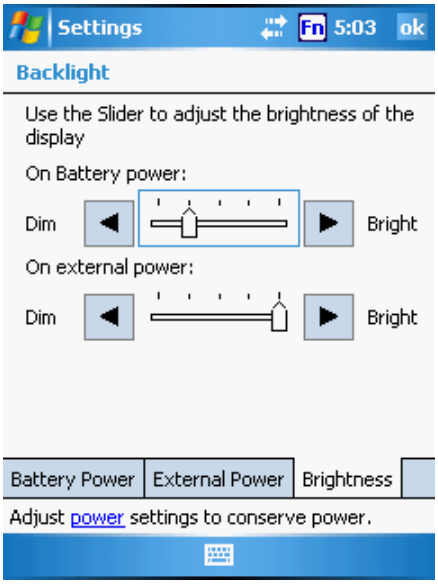


The Backlight screen appears.

3. Do any of the following:
   - In the Battery Power tab, tap the **Turn off backlight if device is not used for** check box and select the amount of time before the unit turns off the back-light while running in battery power mode from the drop-down list.
   - In the External Power tab, tap the **Turn off backlight if device is not used for** check box and select the amount of time before the unit turns off the back-light while running in battery power mode from the drop-down list.
   - Tap the **Turn on the backlight key...** checkbox to activate the backlight when the software keyboard is enabled.


Settings
Fn 4:59
ok
Backlight
Warning: Using backlight while on battery power will substantially reduce battery life.
Turn off backlight if device is not used for
1 min
Turn on backlight when a button is pressed or the screen is tapped
Battery Power
External Power
Brightness
Adjust power settings to conserve power.

– In the Brightness tab, tap and drag the slider to choose a dimmer backlight when operating on battery power.



Viewing Flash Memory Files

Flash memory is rewritable location for programs and data files. The benefit of this feature is that files and programs saved in Flash Memory are unaffected by the PA600 power status.

To access the Flash Memory files:

1. Connect the device to your computer. See page 24.
2. On your computer, click **My Computer > Flash Storage.**

To transfer files to your device's Flash Memory:

1. Connect the device to your computer. See page 24.
2. On your computer, click **My Computer > Flash Storage.**
3. Select the file that you want to save.
4. Click **File > Save To** and select **Flash Storage.**

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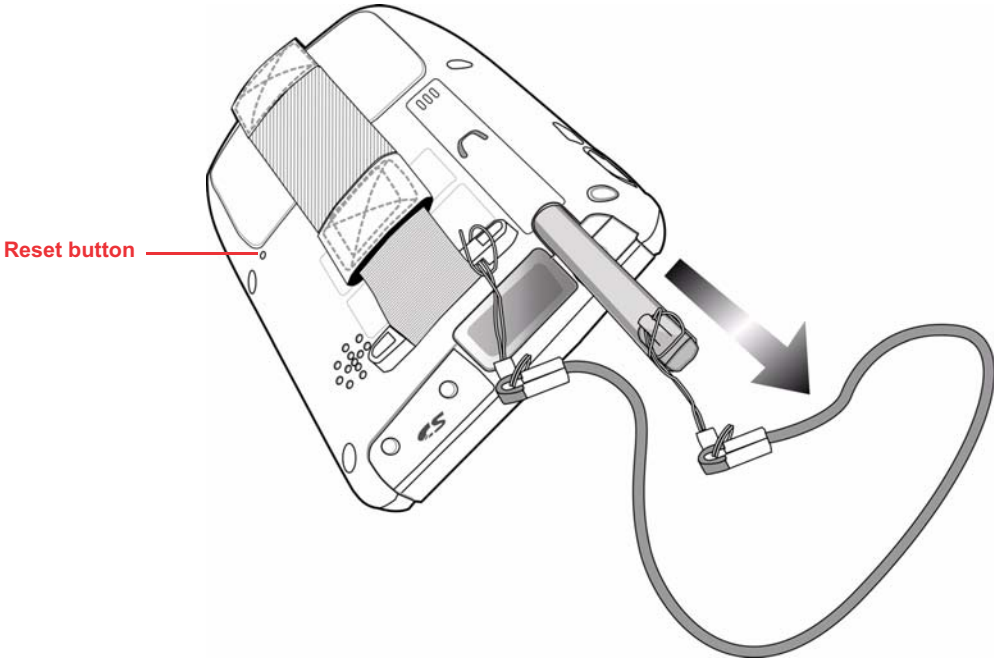
Performing a hardware reset

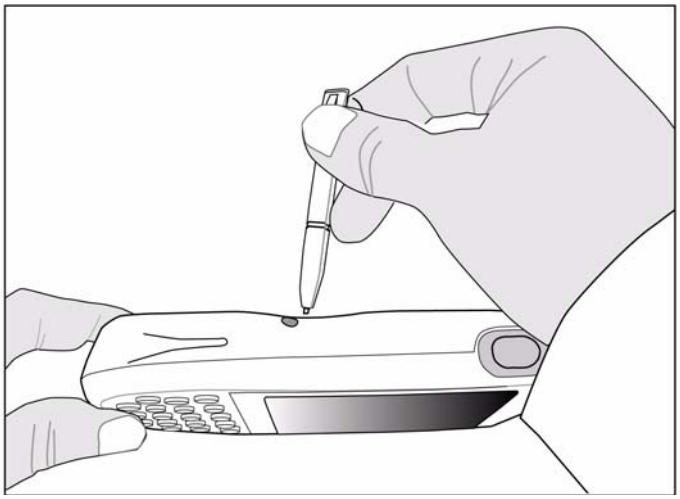
You may have to perform a reset if the device freezes (i.e., device no longer responds to the buttons on the screen).

A soft reset allows your device to get a fresh start, similar to rebooting a computer. This will restart your device and adjust memory allocation. All records and entries are retained after a soft reset. Unsaved data in open programs may in some cases be lost.

Performing a Warm Boot

1. Remove the stylus from its holder.
2. Lightly press the tip of the stylus to the reset button located on the rear of the PA600.





Performing a Cool Boot

A hard reset cuts off power to your device, erasing all records and entries, deleting all programs you have added, and restoring the device to default factory settings.

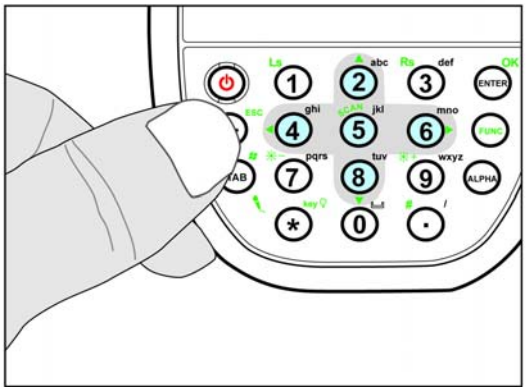
Never perform a hard reset unless a soft reset does not correct your problem. When you perform your next ActiveSync operation, you can restore any data that you previously synchronized to your computer or you can restore data that you backed up to a storage card.

NOTE: When you perform a hard reset, the date and time settings will not be retained. Formats, preferences, and other settings are restored to their default factory settings.

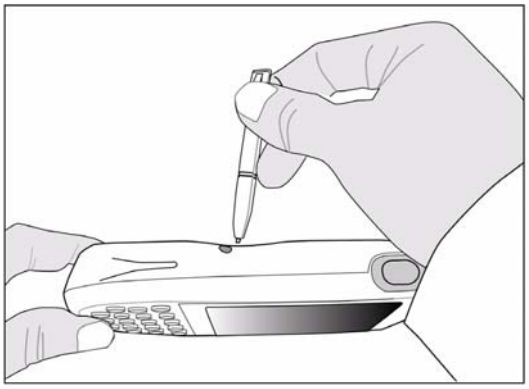
Method 1

Follow these instructions to perform a cool boot.

1. Press and hold the Backspace key.



2. While holding the Backspace key, insert the tip of the stylus into the reset hole on the back of the PA600 and press and hold the reset button until you see the Unitech splash logo screen appear and then release the Backspace and reset buttons.



NOTE: The system is returned to the default settings. All registry settings and all files (include the hidden files) are returned to their original factory defaults.

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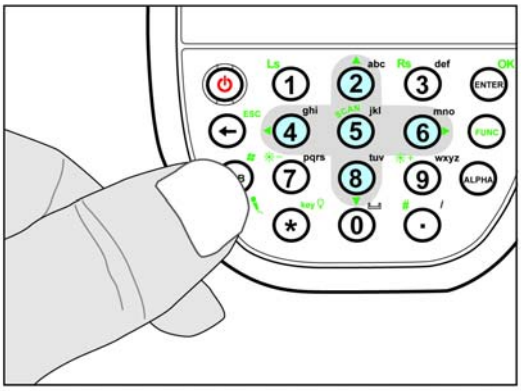
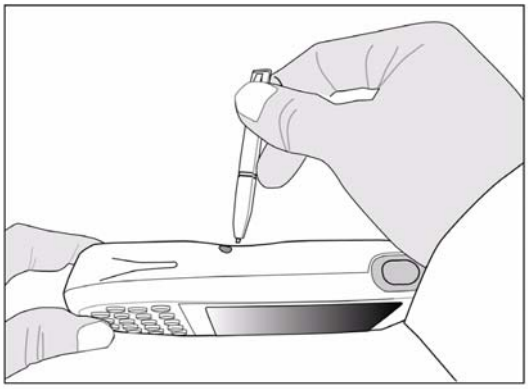
Method 2

1. Press and hold the TAB key.



2. While holding the TAB key, insert the tip of the stylus into the reset hole on the back of the PA600 and press and hold the reset button until you see the Unitech splash logo screen appear and then release the TAB and reset buttons.



NOTE: All registry settings are returned to default settings. You must reinstall all software. All files in flash memory are retained.

System Specifications

Processing/Memory	CPU	Intel PXA270 520MHz
	Memory	SDRAM:64MB Flash ROM:128MB
OS	Window Mobile 5.0 / Windows CE 5.0	
Keypad	18-Key, including numeric key, alpha key and function key	
Display	240x320 QVGA, Color Transflective TFT, with Touch Screen & backlight	
Scanner	Laser Scan Engine, CCD Scan Engine as optional	
Indicator	LED, Vibrator	
Communication	USB Host & Client IrDA 1.2(SIR) GPRS (Data Only)(Win CE Models Only) 802.11b/g for power saving Bluetooth Bluetooth supports Bluetooth Printer, Bluetooth Modem, Bluetooth ActiveSync	
Audio	MIC Speaker Headset Connector Receiver	
Expansion Slot	SDIO slot	
Power Source	Main	3.7V 1950mAH Li-Ion battery pack
	Backup	One rechargeable Ni-MH backup battery
Enclosure	Weight	Under 300g with battery & scan engine
	Dimension	Approximately L149.5 X H26.6 X W85mm
Environmental	Operating temperature	0 C~ 50 C
	Storage temperature	-20 C~ 60 C
	Relative Humidity	5% ~ 95%(non-condensing)
	Drop test to Concrete	4 feet
	Environmental Sealing	IP54
Models	GPRS + BT	
	802.11b/g + BT	
	BT Only	
Certification	CE, FCC, BSMI, VCCI, RoHS compliant	
Accessories	Desktop Cradle 4-Slot Battery Charger	Vehicle Quick Charging Cable Holster
Software	Microsoft Visual Studio 2005 Microsoft Windows Mobile 5.0 SDK Unitech PA600 SDK VOIP (via 3rd party)	

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